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PATENT COOPERATION TREATY

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FISH & RICHARDSON P.C. Attn. Beattie, I.A. 225 Franklin Street Boston, Massachusetts 02444200EVE UNITED STATES OF AMERICA	NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL SEARCH REPORT OR THE DECLARATION Data Entry Opening Control
TRANSFER JUL 0 5 20	SULLY TO An Financian Ban
XA FIST BOSTO.	(day/month/year) 26/06/2000 Annuities
Applicant's or agent's file reference	FOR FURTHER ACTION See paragraphs 1 and 4 below
International application No. PCT/US 00/03560 Deadline	International filing date (day/month/year) 11/02/2000
Applicant	
PRESIDENT AND FELLOWS OF HARVARD COLLEG	E et al.
Filing of amendments and statement under Article 19: The applicant is entitled, if he so wishes, to amend the clai When? The time limit for filing such amendments is norm	ims of the International Application (see Rule 46): mally 2 months from the date of transmittal of the details, see the notes on the accompanying sheet. Docketed By Practice Systems 2000 70 20 70 80 400
For more detailed instructions, see the notes on the acc	companying sheet.
2. The applicant is hereby notified that no International Search Article 17(2)(a) to that effect is transmitted herewith.	ch Report will be established and that the declaration under
	tional fee(s) under Rule 40.2, the applicant is notified that: sen transmitted to the International Bureau together with the rotest and the decision thereon to the designated Offices.
no decision has been made yet on the protest; the ap	pplicant will be notified as soon as a decision is made.
4. Further action(s): The applicant is reminded of the following: Shortly after 18 months from the priority date, the international a lf the applicant wishes to avoid or postpone publication, a notic priority claim, must reach the International Bureau as provided completion of the technical preparations for international public	application will be published by the International Bureau. ce of withdrawal of the international application, or of the d in Rules 90 <i>bis</i> .1 and 90 <i>bis</i> .3, respectively, before the
Within 19 months from the priority date, a demand for internatio wishes to postpone the entry into the national phase until 30 m	
Within 20 months from the priority date, the applicant must perforbefore all designated Offices which have not been elected in the priority date or could not be elected because they are not bour	the demand or in a later election within 19 months from the
Name and mailing address of the International Searching Authority	Authorized officer

Sandra De Jong-van Dam

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NOTES TO FORM PCT/ISA/220

These Notes are intended to give the basic instructions concerning the filing of amendments under article 19. The Notes are based on the requirements of the Patent Cooperation Treaty, the Regulations and the Administrative Instructions under that Treaty. In case of discrepancy between these Notes and those requirements, the latter are applicable. For more detailed information, see also the PCT Applicant's Guide, a publication of WIPO.

In these Notes, "Article", "Rule", and "Section" refer to the provisions of the PCT, the PCT Regulations and the PCT Administrative Instructions respectively.

INSTRUCTIONS CONCERNING AMENDMENTS UNDER ARTICLE 19

The applicant has, after having received the international search report, one opportunity to amend the claims of the international application. It should however be emphasized that, since all parts of the international application (claims, description and drawings) may be amended during the international preliminary examination procedure, there is usually no need to file amendments of the claims under Article 19 except where, e.g. the applicant wants the latter to be published for the purposes of provisional protection or has another reason for amending the claims before international polication. Furthermore, it should be emphasized that provisional protection is available in some States only.

What parts of the international application may be amended?

Under Article 19, only the claims may be amended.

During the international phase, the claims may also be amended (or further amended) under Article 34 before the International Preliminary Examining Authority. The description and drawings may only be amended under Article 34 before the International Examining Authority.

Upon entry into the national phase, all parts of the international application may be amended under Article 28 or, where applicable, Article 41.

When?

Within 2 months from the date of transmittal of the international search report or 16 months from the priority date, whichever time limit expires later, it should be noted, however, that the amendments will be considered as having been received on time if they are received by the International Bureau after the expiration of the applicable time limit but before the completion of the technical preparations for international publication (Rule 46.1).

Where not to file the amendments?

The amendments may only be filed with the International Bureau and not with the receiving Office or the International Searching Authority (Rule 46.2).

Where a demand for international preliminary examination has been its filed, see below.

How?

Either by cancelling one or more entire claims, by adding one or more new claims or by amending the text of one or more of the claims as filed.

A replacement sheet must be submitted for each sheet of the claims which, on account of an amendment or amendments, differs from the sheet originally filed.

All the claims appearing on a replacement sheet must be numbered in Arabic numerals. Where a claim is cancelled, no renumbering of the other claims is required. In all cases where claims are renumbered, they must be renumbered consecutively (Administrative Instructions, Section 205(b)).

The amendments must be made in the language in which the international application is to be published.

What documents must/may accompany the amendments?

Letter (Section 205(b)):

The amendments must be submitted with a letter.

The letter will not be published with the international application and the amended claims. It should not be confused with the "Statement under Article 19(1)" (see below, under "Statement under Article 19(1)").

The letter must be in English or French, at the choice of the applicant. However, if the language of the international application is English, the letter must be in English; if the language of the international application is French, the letter must be in French.

Notes to Form PCT/ISA/220 (first sheet) (January 1994)

NOTES TO FORM PCT/ISA/220 (continued)

The letter must indicate the differences between the claims as filed and the claims as amended. It must, in particular, indicate, in connection with each claim appearing in the international application (it being understood that identical indications concerning several claims may be grouped), whether

- (i) the claim is unchanged;
- (ii) the claim is cancelled:
- (iii) the claim is new;
- (iv) the claim replaces one or more claims as filed;
- (v) the claim is the result of the division of a claim as filed

The following examples illustrate the manner in which amendments must be explained in the accompanying letter:

- [Where originally there were 48 claims and after amendment of some claims there are 51]:
 *Claims 1 to 29, 31, 32, 34, 35, 37 to 48 replaced by amended claims bearing the same numbers;
 claims 30, 33 and 36 unchanged; new claims 49 to 51 added.*
- Where originally there were 15 claims and after amendment of all claims there are 11]:
 "Claims 1 to 15 replaced by amended claims 1 to 11."

Claims 7 to 13 cancelled; new claims 15, 16 and 17 added; all other claims unchanged.

- [Where originally there were 14 claims and the amendments consist in cancelling some claims and in adding new claims]:
 "Claims 1 to 6 and 14 unchanged; claims 7 to 13 cancelled; new claims 15, 16 and 17 added." or
- 4. [Where various kinds of amendments are made]: "Claims 1-10 unchanged; claims 11 to 13, 18 and 19 cancelled; claims 14, 15 and 16 replaced by amended claim 14, claim 17 subdivided into amended claims 15, 16 and 17; new claims 20 and 21 added."

"Statement under article 19(1)" (Rule 46.4)

The amendments may be accompanied by a statement explaining the amendments and indicating any impact that such amendments might have on the description and the drawings (which cannot be amended under Article 19(1)).

The statement will be published with the international application and the amended claims.

It must be in the language in which the international appplication is to be published.

It must be brief, not exceeding 500 words if in English or if translated into English.

It should not be confused with and does not replace the letter indicating the differences between the claims as filed and as amended. It must be filed on a separate sheet and must be identified as such by a heading, preferably by using the words "Statement under Article 19(1)."

It may not contain any disparaging comments on the international search report or the relevance of citations contained in that report. Reference to citations, relevant to a given claim, contained in the international search report may be made only in connection with an amendment of that claim.

Consequence if a demand for international preliminary examination has already been filed

If, at the time of filing any amendments under Article 19, a demand for international preliminary examination has already been submitted, the applicant must preferably, at the same time of filing the amendments with the International Bureau, also file a copy of such amendments with the International Preliminary Examining Authority (see Rule 62.2(a), first sentence).

Consequence with regard to translation of the international application for entry into the national phase

The applicant's attention is drawn to the fact that, where upon entry into the national phase, a translation of the claims as amended under Article 19 may have to be furnished to the designated/elected Offices, instead of, or in addition to, the translation of the claims as filed.

For further details on the requirements of each designated/elected Office, see Volume II of the PCT Applicant's Guide.

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference	FOR FURTHER see Notification of Transmittal of International Search Report (Form PCT/ISA/220) as well as, where applicable, item 5 below.			
05433/042W01	ACTION	20) as well as, where applicable, item 5 below.		
International application No.	International filing date (day/month/year)	(Earliest) Priority Date (day/month/year)		
PCT/US 00/03560	11/02/2000	12/02/1999		
Applicant				
PRESIDENT AND FELLOWS OF	HARVARD COLLEGE et al.			
according to Article 18. A copy is being	een prepared by this International Searching Auth transmitted to the International Bureau.	nority and is transmitted to the applicant		
This International Search Report consis	its of a total ofsheets. by a copy of each prior art document cited in this	report.		
Basis of the report				
 a. With regard to the language, the language in which it was filed, u 	e international search was carried out on the bas inless otherwise indicated under this item.	sis of the international application in the		
Authority (Rule 23.1(b))		•		
b. With regard to any nucleotide a was carried out on the basis of the control of the contro	and/or amino acid sequence disclosed in the in the sequence listing:	ternational application, the international search		
	tional application in written form.			
filed together with the in	ternational application in computer readable form	1.		
furnished subsequently	to this Authority in written form.			
furnished subsequently	to this Authority in computer readble form.			
the statement that the s international application	ubsequently furnished written sequence listing do as filed has been furnished.	pes not go beyond the disclosure in the		
the statement that the in furnished	nformation recorded in computer readable form is	identical to the written sequence listing has been		
2. X Certain claims were fo	und unsearchable (See Box I).	·		
3. Unity of invention is la	cking (see Box II).			
4. With regard to the title,				
non'	submitted by the applicant.	·		
=	ished by this Authority to read as follows:			
5. With regard to the abstract,				
	submitted by the applicant.			
the text has been estable within one month from the	ished, according to Rule 38.2(b), by this Authority ne date of mailing of this international search repo	y as it appears in Box III. The applicant may, ort, submit comments to this Authority.		
6. The figure of the drawings to be put		<u>=</u>		
as suggested by the app	olicant.	None of the figures.		
because the applicant fa	iled to suggest a figure.			

Form PCT/ISA/210 (first sheet) (July 1998)

International Application No PCT/US 00/03560

A. CLASSIFICATION OF SUBJECT MATTER
1PC 7 C12N15/11 A61K31/7088 A61K39/395 G01N33/68 According to International Patent Classification (IPC) or to both national classification and IPC **B. FIELDS SEARCHED** Minimum documentation searched (classification system followed by classification symbols) C12N A61K G01N Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the international search (name of data base and, where practical, search terms used) BIOSIS, MEDLINE C. DOCUMENTS CONSIDERED TO BE RELEVANT Category ° Citation of document, with indication, where appropriate, of the relevant passages Relevant to claim No. X WO 92 06104 A (DANA FARBER CANCER INST INC 19,21 ;UNIV ILLINOIS MED (US)) 16 April 1992 (1992-04-16) cited in the application page 32, line 8 -page 33, line 2 Further documents are listed in the continuation of box C. Patent family members are listed in annex. Special categories of cited documents: "T" later document published after the international filing date or priority date and not in conflict with the application but "A" document defining the general state of the art which is not considered to be of particular relevance cited to understand the principle or theory underlying the invention earlier document but published on or after the international "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such docudocument referring to an oral disclosure, use, exhibition or other means ments, such combination being obvious to a person skilled in the art. document published prior to the international filing date but later than the priority date claimed "&" document member of the same patent family Date of the actual completion of the international search Date of mailing of the international search report 5 June 2000 26/06/2000 Name and mailing address of the ISA Authorized officer European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016 Andre's, S

International Application No PCT/US 00/03560

	ation) DOCUMENTS CONSIDERED TO BE RELEVANT	
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	RICHIERI G V ET AL: "EQUILIBRIUM CONSTANTS FOR THE BINDING OF FATTY ACIDS WITH FATTY ACID-BINDING PROTEINS FROM ADIPOCYTE, INTESTINE, HEART, AND LIVER MEASURED WITH THE FLUORESCENT PROBE ADIFAB" JOURNAL OF BIOLOGICAL CHEMISTRY, vol. 269, no. 39, 30 September 1994 (1994-09-30), pages 23918-23930, XP000645401 ISSN: 0021-9258 cited in the application the whole document	17,18, 22,23
A	WO 98 45440 A (INCYTE PHARMA INC ;SHAH PURVI (US); HILLMAN JENNIFER L (US)) 15 October 1998 (1998-10-15) the whole document	1-23
Α _	LYLE ROBERT E ET AL: "Antisense oligonucleotides to differentiation-specific element binding protein (DSEB) mRNA inhibit adipocyte differentiation." BIOCHEMICAL AND BIOPHYSICAL RESEARCH COMMUNICATIONS, vol. 228, no. 3, 1996, pages 709-715, XP002139363 ISSN: 0006-291X	
A .	HOTAMISLIGIL GOKHAN S ET AL: "Uncoupling of obesity from insulin resistance through a targeted mutation in aP2, the adipocyte fatty acid binding protein." SCIENCE, vol. 274, no. 5291, 1996, pages 1377-1379, XP002139364 ISSN: 0036-8075 cited in the application	
	HORVAI A. ET AL.: "Scavenger receptor A gene regulatory elements target gene expression to macrophages and to foam cells of atherosclerotic lesions." PROC NATL ACAD SCI U S A 1995 JUN 6;92(12):5391-5, XP002139365 cited in the application -/	
	0 (continuation of second sheet) (July 1992)	

International Application No
PCT/US 00/03560

	ation) DOCUMENTS CONSIDERED TO BE RELEVANT	Indoores (1)
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
P,A	PELTON PATRICIA D ET AL: "PPARgamma activation induces the expression of the adipocyte fatty acid binding protein gene in human monocytes." BIOCHEMICAL AND BIOPHYSICAL RESEARCH COMMUNICATIONS, vol. 261, no. 2, 2 August 1999 (1999-08-02), pages 456-458, XP002139366 ISSN: 0006-291X the whole document	12
E	WO 00 15230 A (SQUIBB BRISTOL MYERS CO) 23 March 2000 (2000-03-23) page 3 page 38, line 27 -page 41	13,17
T	WOLFRUM C ET AL: "Variation of liver-type fatty acid binding protein content in the human hepatoma cell line HepG2 by peroxisome proliferators and antisense RNA affects the rate of fatty acid uptake." BIOCHIMICA ET BIOPHYSICA ACTA, (1999 FEB 25) 1437 (2) 194-201., XP000907541	
	•	

International application No. PCT/US 00/03560

INTERNATIONAL SEARCH REPORT

Box I	Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)
This Inte	ernational Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
1. X	Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:
	Although claim 12 (as far as an in vivo method is concerned) and claims $1-11$ and $13-16$ are directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the compound/composition.
2.	Claims Nos.: because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3.	Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
Box II	Observations where unity of invention is lacking (Continuation of item 2 of first sheet)
This Inte	mational Searching Authority found multiple inventions in this international application, as follows:
	%
1.	As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2.	As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3.	As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4.	No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is
'	estricted to the invention first mentioned in the claims; it is covered by claims Nos.:
Remark o	The additional obtaining accompanied by the applicant's protest.
	No protest accompanied the payment of additional search fees.

information on patent family members

PCT/US 00/03560

Patent document cited in search report	rt	Publication date		atent family member(s)	Publication date
WO 9206104	Α	16-04-1992	US	5476926 A	19-12-1995
W0 9845440	A	15-10-1998	AU	6894298 A	30-10-1998
W0 0015230	Α	23-03-2000	WO	0015229 A	23-03-2000

Form PCT/ISA/210 (patent family annex) (July 1992)